

**Listing of Claims:**

Claims 1-16 (Canceled).

17. (Currently Amended) A microscope electronic camera for a microscope having a function of changing a setting of an observation condition of a specimen, said microscope electronic camera comprising:

5 an imaging element which obtains an observation image of the specimen;

recognizing means for, when the setting of the observation condition in the microscope is changed, recognizing changed setting information, and also for recognizing magnification/  
10 specimen change information relating to at least one of a change of observation magnification and a change of the specimen;

color signal processing means for processing a color image signal output from the imaging element in accordance with the changed setting information recognized by the recognizing means;

15 and

filter coefficient ~~changing~~ setting means, connected to the color signal processing means, for ~~changing~~ setting a filter coefficient  $[[,]]$  which ~~determines a degree of contour~~  
~~accentuation suitable for observation with respect to~~ accentuates  
20 a contour of each of color signals as the processed color image

signal for suitable observation, in accordance with the magnification/specimen change information recognized by the recognizing means.

Claims 18 and 19 (Canceled).

20. (Currently Amended) A microscope electronic camera for a microscope having a function of changing a setting of an observation condition of a specimen, said microscope electronic camera comprising:

5        an imaging element which obtains an observation image of the specimen;

         a microscope control section configured to, when the setting of the observation condition in the microscope is changed, recognize changed setting information, and also configured to  
10       recognize magnification/specimen change information relating to at least one of a change of observation magnification and a change of the specimen;

         a color image control section configured to process a color image signal output from the imaging element in accordance with  
15       the changed setting information recognized by the microscope control section; and

         a filter circuit which is connected to the color image control section and which ~~changes a filter coefficient, which~~

~~determines a degree of contour accentuation suitable for~~  
20 ~~observation with respect to~~ accentuates a contour of each of  
color signals as the processed color image signal for suitable  
observation, in accordance with the magnification/specimen change  
information recognized by the microscope control section.

Claim 21 (Canceled).

22. (New) A microscope electronic camera having a function  
of changing a setting of an observation condition of a specimen,  
said microscope electronic camera comprising:

5 an imaging element which obtains an observation image of the  
specimen;

recognizing means for, when the setting of the observation  
condition in the microscope is changed, recognizing changed  
setting information, and also for recognizing magnification/  
specimen change information relating to at least one of a change  
10 of observation magnification and a change of the specimen;

color signal processing means for separating a color image  
signal output from the imaging element into color signals in  
accordance with the changed setting information recognized by the  
recognizing means;

15 a filter circuit which executes contour accentuation for  
each of the color signals; and

filter coefficient setting means, connected to the filter circuit, for setting a filter coefficient which accentuates a contour of each of the color signals for suitable observation, in accordance with the magnification/specimen change information  
20 recognized by the recognizing means.

23. (New) The microscope according to claim 20, further comprising:

filter coefficient setting means for setting a filter coefficient of the filter circuit in accordance with the  
5 magnification/specimen change information recognized by the microscope control section.